

CLAIMS

1. A pressurized container made of reinforced polyesters wherein upon being filled with a liquid having a dissolved carbon dioxide content of about 0.4 – 0.6 wt % at an internal pressure of at least 1 bar, said pressurized container maintains a dissolved carbon dioxide content of at least 0.25 wt % after 0.5 year at a storage temperature of about 30 to 35 °C.
2. The pressurized container of claim 1, wherein the polyesters are reinforced by reinforcing agents selected from glass fibers, carbon fibers, metal fibers, aromatic polyamide fibers, and combinations thereof.
3. The pressurized container of claim 1, obtainable by a conventional thermoplastic processing method selected from injection molding, thermoforming, hot-press molding, injection-compression molding, blow molding, pultrusion, extrusion, or combinations thereof.
4. The pressurized container of claim 1, further comprising a plurality of reinforcing strips attached to and reinforcing said container with each strip encircling the container in a hoop direction at least once.
5. The pressurized container of claim 1, wherein the reinforcing agents are glass fibers having a length of at least 0.5 cm.
6. The pressurized container of claim 1, wherein the polyesters are reinforced by glass fibers in an amount of at least 20 wt. % based on the total weight of said reinforced polyesters.
7. The pressurized container of claim 1, wherein the polyesters are reinforced by glass fibers in an amount of about 1 to about 50 volume % (vol. %).
8. The pressurized container of claim 1, having a wall thickness of at least 0.2 mm.
9. The pressurized container of claim 1, having a total liquid volume of at least 15 liters.
10. A pressurized container made of reinforced polyesters having a wall thickness of at least 0.2 mm and a carbon dioxide permeability property of less than 0.8 g / 100 sq in. in 24 hours per mil.